HIGH-SPEED STEEL FOR END MILL

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- European:

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Abstract of JP5163563

PURPOSE:To obtain a high-speed steel for the end mill excellent in durable machinability with the surface hardness controlled to >=900HV and the core hardness to >=60 HRC. CONSTITUTION:Carbon is infiltrated and diffused into the surface of a high-speed steel contg. 0.4-0.8 by weight of C, <=1.0% Si, <=1.0% Mn, 3.0-5.0% Cr, 5.0-10.0% Mo, 2.0-10.0% W, 2.5-4.0% V, 7.0-10.0% Co and the balance iron and inevitable impurities and fulfilling W+2Mo=18 to 22%. The steel is further hardened and tempered. Consequently, the steel has a carburized layer of at least 1mm thickness, and the surface hardness is controlled to >=900HV and the core hardness to >=60HRC.

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